**Please provide your answers below the question before thursday. Upload your code (you can paste the code directly here) and include a snippet of the output (ss) as well.  
  
  
  
  
Task: Write the Python code based on the following specifications:**

1. **Part a: User Input and Greeting**
   * Print the statement: “Enter your first name:”.
   * Get the user’s name from the console and save it to a variable called first\_name.
   * Print the statement: “Hello, <name>”, where <name> is the actual first name entered by the user.
2. **Part b: Integer Operations**
   * Create a variable called x and assign it the integer value 5.
   * Create a variable called y and assign it the integer value 10.
   * Create a variable called total and assign it the sum of x and y.
   * Print the total in the format: “5 + 10 = 15” using the variables you created above.
3. **Part c: Floating-Point Operations**
   * Create a variable called a and assign it the floating-point value 10.5.
   * Create a variable called b and assign it the floating-point value 4.0.
   * Create a variable called product and assign it to the product of a multiplied by b.
   * Print the value of product in the format: “10.5 \* 4.0 = 42.0” using the variables you created above.
4. **Part d: Difference Calculation**
   * Print the difference between product and total (i.e., product - total).
   * Convert product to an integer when performing the subtraction.
     + **Note**: You can do this directly within the parentheses of the print() statement.
   * **Comment**: Answer the following question in a comment:  
     *How is the output different if you don’t convert product to an integer?*
5. **Part e: Print Without Newline**
   * Print the string: “This program is done.”, but do **NOT** permit a newline to be printed at the end.
6. **Part f: Code Structure**
   * Include at least 4 comments in your code and use whitespace to group related “paragraphs” of code for better readability.
7. **Part g: Program End**
   * Always end your programs with a single blank line.
8. # 1. Part a: User Input and Greeting
9. # ○ Print the statement: “Enter your first name:”.
10. # ○ Get the user’s name from the console and save it to a variable called first\_name.
11. # ○ Print the statement: “Hello, <name>”, where <name> is the actual first name entered by the user.
12. first\_name=input("Enter your first name: ")
13. print (f"Hello {first\_name}")
14. # 2. Part b: Integer Operations
15. # ○ Create a variable called x and assign it the integer value 5.
16. # ○ Create a variable called y and assign it the integer value 10.
17. # ○ Create a variable called total and assign it the sum of x and y.
18. # ○ Print the total in the format: “5 + 10 = 15” using the variables you created above.
19. x=5
20. y=10
21. total=x+y
22. print (f"{x}+{y}={total}")
23. # 3. Part c: Floating-Point Operations
24. # ○ Create a variable called a and assign it the floating-point value 10.5.
25. # ○ Create a variable called b and assign it the floating-point value 4.0.
26. # ○ Create a variable called product and assign it to the product of a multiplied by b.
27. # ○ Print the value of product in the format: “10.5 \* 4.0 = 42.0” using the variables you created above.
28. a=10.5
29. b=4.0
30. product=a\*b
31. print (f"{a} \* {b}={product}")
32. # 4. Part d: Difference Calculation
33. # ○ Print the difference between product and total (i.e., product - total).
34. # ○ Convert product to an integer when performing the subtraction.
35. # ■ Note: You can do this directly within the parentheses of the print() statement.
36. # ○ Comment: Answer the following question in a comment:
37. # How is the output different if you don’t convert product to an integer?
38. difference1=(product)-total
39. print(f"{int(product)-total} is the difference when product is converted to integer")
40. print(f"{difference1} is the difference when product is not converted to integer")
42. # 5. Part e: Print Without Newline
43. # ○ Print the string: “This program is done.”, but do NOT permit a newline to be printed at the end.
44. # 6. Part f: Code Structure
45. # ○ Include at least 4 comments in your code and use whitespace to group related “paragraphs” of code for better readability.
46. # 7. Part g: Program End
47. # ○ Always end your programs with a single blank line.

Output:

farzanakhan@Farzanas-MBP python\_learning % python3 "practice\_4\_Feb'25.py"

Enter your first name: Farzana

Hello Farzana

5+10=15

10.5 \* 4.0=42.0

27 is the difference when product is converted to integer

27.0 is the difference when product is not converted to integer

farzanakhan@Farzanas-MBP python\_learning %